



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

WON-CHOUL YANG

Serial No.:

10/072,889

Examiner:

to be assigned

Filed:

12 February 2002

Art Unit:

2652

For:

METHOD AND APPARATUS FOR DETERMINING DISK DRIVE PARAMETER IN

ACCORDANCE WITH AMBIENT TEMPERATURE

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231 RECEIVED

JUL 0 3 2002

Technology Center 2600

Sir:

Pursuant to 37 CFR §§1.56, 1.97 and 1.98, applicant cites, and provides copies of the following art references:

U.S. PATENT REFERENCES

| | U.S. Patent No. | Inventor(s) | Issued Date |
|----|-----------------|-------------------|--------------------|
| ✓ | 3,753,254 | Ruble et al. | 14 August 1973 |
| ✓ | 5,566,077 | Kulakowski et al. | 15 October 1996 |
| ✓. | 5,808,438 | Jeffrey | 15 September 1998 |
| ✓ | 6,078,455 | Enarson et al. | 20 June 2000 |
| ✓ | 6,088,662 | Flinsbaugh et al. | 11 July 2000 |
| ✓ | 6,124,998 | Kanegae | 26 September 2000 |
| ✓ | 6,229,275 | Yamamoto | 8 May 2001 |

FOREIGN PATENT REFERENCES

| Foreign Patent No. | Inventor(s) | Issued Date |
|--------------------|----------------|--------------------|
| GB 2 341 267 | Enarson et al. | 8 March 2000 |

Other Documents

✓ United Kingdom Patent Office's combined search and examination report No. GB 0125016.6 dated 17 May 2002

Discussion_

According to the Examiner, Enerson '455 and Seagate '267 disclose a system for optimizing the operational threshold performance of a disk drive through temperature control. An optimum temperature range is set and a sensor periodically measures the temperature of the disk drive whilst the disk drive is at idle.

Yamamoto '275 discloses, according to the British Examiner, a semiconductor device for use in a disk drive. The device comprises a temperature detection section, whereby, if the temperature rises or falls beyond a predetermined range a signal is sent to the spindle motor driver to compensate for the extreme temperature.

Kanegae '998, according to the British Examiner, includes a temperature detecting unit which, at predetermined times, detects the ambient temperature of the recording medium, and compares the value to threshold values. The write current is then adjusted accordingly.

Flinsbaugh '662, according to the British Examiner, discloses a temperature sensing system for use in a computer disk drive, whereby the effects of the temperature are compensated by optimizing temperature related read/write parameters such as MR pre amp write current magnitude

and read bias current.

Jeffrey '438, according to the British Examiner, discloses a system that in response to the signal from the temperature sensor the voltage applied to the actuator motor is adjusted to compensate.

Kulakowski '077, according to the British Examiner, discloses a control system that when the temperature exceeds a first threshold the control circuit inhibits the high/low temperatures write and erase operations, and the operating temperature of the drive is maintained within predetermined parameters.

Ruble '254, according to the British Examiner, discloses two thermistors, and if a change in temperature is detected, the signals are compared to a set reference temperature in order to generate a compensation signal to correct the head position controller.

PATENT P56603

The citation of the foregoing references is not intended to constitute an assertion that other

or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging

and thorough search of the relative arts.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of

information contained in this Information disclosure statement was cited in a communication from

a foreign patent office in a counterpart foreign patent application not more than three months prior

to the filing of the statement.

No fee is incurred by filing this Information Disclosure Statement. Should any fee remain

or be required for filing of this Information Disclosure Statement, the Commissioner is authorized

to charge the Deposit Account No. 02-4943 and advise the undersigned attorney accordingly.

Respectfully submitted,

Robert E. Bushnell

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Folio: P56603 Date: 28 June 2002 I.D.: REB/ahm

Area Code: 202-408-9040

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| INFORMATION DISCLOSURE STATEMENT PTO-1449 (PAGE 1 OF 1) JUN 2 8 2002 | | | | SERIAL NUMBER 10/072,889 | | DOCKET NO. P56603 | | | | | | |
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| | 3,753,254 | 8/73 | Ruble et al. | | | | | | | | | |
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| | 5,808,438- | 9/98 | Jeffrey | | | | | | | | | |
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| | 6,088,662 | 7/00 | Flinsbaugh et al. | | | | 40 1 | , Ch | | | | |
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| | DOCUMENT NUMBER | DATE | COUNTRY | | CLASS | SUBCLASS | YES | NO | | | | |
| | GB 2 341 267 | 3/00 | United King | dom | | | | | | | | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | | | | | | |
| | United Kingdom Patent Office's combined search and examination report No. GB 0125016.6 dated 17 | | | | | | | | | | | |
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| EXAMINER: DATE CONSID | | | DATE CONSIDE | FRED: | | | | | | | | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | | | | | |

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